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UM NEWS



Google

June 2013 News

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UM NEWS



June 28, 2013

MISSOULA – As Americans prepare to celebrate the 237th anniversary of U.S. independence, Grateful Nation Montana will engrave the name of Army Sgt. 1st Class Darren Linde on the Grateful Nation Montana Fallen Soldier Memorial at the University of Montana.

On July 2, Linde's name will join those of the 42 other soldiers from Montana who have paid the ultimate price while serving their country in Iraq and Afghanistan.

"The GNM Fallen Soldier Memorial is a magnificent tribute to our soldiers," said David Bell, Grateful Nation Montana founder and president.

The memorial, located along historic Memorial Row on the northeast side of campus, features five larger-than-life bronze statues surrounded by 42 12-by-24 inch granite tablets recessed in the ground containing the name, branch, rank, years lived and Montana hometown of each of the heroes.

"We know the legacy of Darren Linde as a defender of our freedom, proudly wearing our nation's uniform," Bell said. "Additionally, Darren was a husband and father, and as fellow Montanans we mourn with the Linde family for their loss."

Linde, 41, grew up in **Sidney** and was serving with the North Dakota National Guard when he died in a roadside blast in southern Afghanistan in early December. He and his wife, Adrienne, had four children.

Linde will join the names of other Montana heroes at this memorial so that future generations always will remember the sacrifice they made for the country.

Formed in 2007, Grateful Nation Montana facilitates college educations for the children of Montana soldiers killed on active duty in Iraq and Afghanistan. The organization gifted the Fallen Soldier Memorial to UM on Nov. 4, 2011. For more information visit <http://www.gratefulnationmontana.com/>. The memorial will be dedicated in October as the official State Iraq and Afghanistan Veterans' Memorial.

Garden City Monument Services will engrave the name at 11:30 a.m. Tuesday, and the process will take several hours.

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Photo 1 cutline: Army Sgt. 1st Class Darren Linde

Photo 2 cutline: Linde on active duty (courtesy photo).

DB/all

State, Sidney media

062813lind

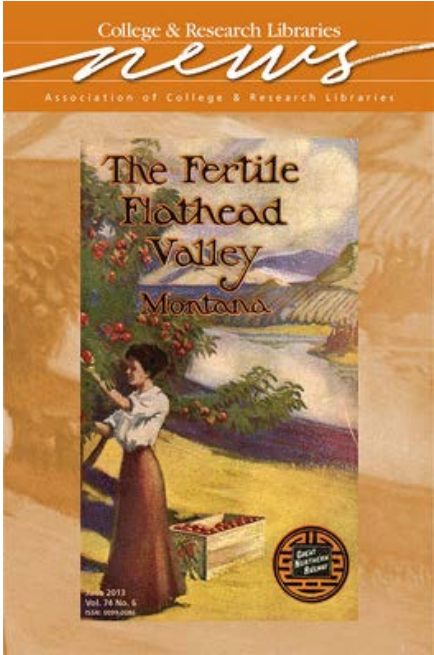
Contact: Peggy Kuhr, UM vice president for integrated communications, 406-243-2311, peggy.kuhr@mso.umt.edu; David Bell, co-founder and president, Grateful Nation Montana, 406-240-9274, dbell@gratefulnationmontana.com.



UM NEWS



June 25, 2013



Ag Pamphlet

MISSOULA – An agricultural promotional pamphlet from the University of Montana’s Archives and Special Collections at the Maureen and Mike Mansfield Library appears on the cover of the June 2013 issue of College & Research Library News.

The pamphlet, titled “The Fertile Flathead Valley Montana,” and other similar materials were designed and published by irrigation companies and civic associations to entice Easterners and Midwesterners to purchase land in the Pacific Northwest.

The College & Research Library News is an official publication of the Association of College & Research Libraries. With a membership of more than 12,000, it is the largest division of the American Library Association. The publication is distributed nationally to association members and college and university libraries.

Other primary resources at UM’s Archives and Special Collections focus on Native American populations in Montana; land, environment and conservation; forests, forestry and timber products industry; Montana journalists and writers; Montana politics and politicians; Montana settlers and early businesses; the fur trade and UM history.

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SZ/js
Local
062013pamp

Contact: Shali Zhang, dean, UM Mansfield Library, 406-243-6800, shali.zhang@mso.umt.edu.

UM NEWS



Google

June 24, 2013

MISSOULA – Graduate students in environmental science and related fields have earned enhancement funds from the Montana Institute on Ecosystems. The students are working with IoE faculty at the University of Montana and Montana State University.

The awards, in amounts up to \$1,000, can be used for travel, supplies, publication support or research, or can be used to attend or convene a professional meeting.

UM students receiving awards are:

- Sarah Castle, forestry, Idaho Springs, Colo.
- Emily Clark, forestry, Leawood, Kan.
- Amanda DelVecchia, systems ecology, Brooklyn, N.Y.
- Sharon Hood, organismal biology and ecology, Mobile, Ala.
- Eric Johnson, economics, Hamilton.
- Leslie Jones, systems ecology, Whitefish.
- Blake Lowrey, systems ecology, Denver.
- Jacob Lucero, organismal biology and ecology, San Antonio, Texas.
- Kimiko Nygaard, forestry, Nashville, Tenn.
- Mandy Slate, organismal biology and ecology, Bozeman.
- Dan Vanderpool, division of biological sciences, Weippe, Idaho.
- Kate Walker, environmental science and natural resource journalism, Dartmouth, Mass.

The Institute on Ecosystems is a multi-institutional community dedicated to understanding complex ecosystems and the interconnectedness of people and nature. Its internship program supports students who explore the effects of climate change in sustaining healthy ecosystems and economic growth. For more information visit <http://montanaioe.org>.

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GA/js

Statewide, hometowns

062113ecos

Contact: Gay Allison, Montana Institute on Ecosystems, 406-243-2617, gay.allison@umontana.edu.



UM NEWS

June 24, 2013

MISSOULA – Premier hip-hop duo Macklemore & Ryan Lewis will play the Adams Center at the University of Montana on Thursday, Oct. 24. Doors open at 7 p.m. and the show begins at 8 p.m.

Tickets cost \$36.50 plus fees for reserved seating and \$39.50 plus fees for general admission floor seating. They go on sale at 10 a.m. Friday, June 28, and will be available at all GrizTix locations, by calling 1-888-MONTANA and online at <http://www.griztix.com>.

Seattle-based Macklemore & Ryan Lewis are known for their expertly crafted music and innovative music videos and media. They broke new ground by independently releasing their debut full-length album, “The Heist,” which shot to the No. 1 slot on iTunes, debuted at No. 2 on the Billboard charts and was certified gold without the support of a traditional record label.

For more information call UM Productions Marketing Coordinator Heather Krebsbach at 406-243-4719 or email marketing@umproductions.org.

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HK/js
062413mack
Western Montana

Contact: Heather Krebsbach, marketing coordinator, UM Productions, 406-243-4719, marketing@umproductions.org.



UM NEWS



Google

June 21, 2013

MISSOULA – Indie folk-pop darlings the Avett Brothers will play the Adams Center at the University of Montana at 8 p.m. Sunday, Oct. 20. Nicholas David will play the opening set.

Tickets cost \$37.50 plus fees for reserved seating and \$29.50 plus fees for general admission. All prices increase \$2.50 the day of the show. Tickets go on sale at 10 a.m. Saturday, June 29, and will be available at all GrizTix locations, by calling 1-888-MONTANA and online at <http://www.griztix.com>.

Banjoist Scott Avett and guitarist Seth Avett formed the Avett Brothers with stand-up bass player Bob Crawford in 2001. They recently released their seventh full-length album, "The Carpenter."

For more information call UM Productions Marketing Coordinator Heather Krebsbach at 406-243-4719 or email marketing@umproductions.org.

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HK/js

062113avet

Western Montana, dailies

Contact: Heather Krebsbach, marketing coordinator, UM Productions, 406-243-4719, marketing@umproductions.org.

UM NEWS



Google

June 21, 2013

MISSOULA –Three University of Montana teacher candidates recently returned from a 16-week student-teaching practicum in the Palni Hills of south India.

UM's Phyllis J. Washington College of Education and Human Sciences recently entered a partnership with Kodaikanal International School in Kodaikanal, India, to afford UM teacher candidates the opportunity to conduct their 16-week student teaching practicum at this international site.

KIS is a boarding school that educates grades P-12. Students and staff from more than 30 countries share in a multicultural residential experience intentionally set within community life. The pupils are diverse in ethnicity, economic status and religious beliefs. KIS combines a challenging academic program with a rich range of extracurricular activities. International baccalaureate and American curricula are offered to about 600 students.

On July 5, three more teacher candidates from UM will depart for India to assume their autumn semester student-teaching assignments. Secondary English teacher candidate Katie Reilly and elementary education majors Carly Chenoweth and Jessica Lauwers will be next to hold positions at KIS.

For more information on the UM and KIS partnership, call Nancy Noel Marra, director of the Office of Field Experiences in UM's College of Education, at 406-243-5581 or email nancy.marra@umontana.edu.

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NM/all

local

062013inda

Contact: Nancy Noel Marra, Office of Field Experiences director, UM Phyllis J. Washington College of Education and Human Sciences, 406-243-5581, nancy.marra@umontana.edu.

UM NEWS



June 20, 2013

MISSOULA – Hold on loosely, Missoula, but don't let go.

UM Productions and Railway Productions announced that American rock band .38 Special will perform in Missoula at 7:30 p.m. Thursday, Sept. 12.

The concert's venue is the Adams Center on the campus of the University of Montana. Tickets cost \$25 plus fees and go on sale Tuesday, June 25. Tickets are available at all GrizTix locations, by calling 1-888-MONTANA and online at <http://www.umt.edu/griztix/>.

After more than three decades together, .38 Special continues to bring their signature Southern rock sound to more than 100 cities every year. The band's hits include "Hold on Loosely," "Rockin' Into the Night," "Caught Up in You," "Second Chance" and more.

For more information call UM Productions Marketing Coordinator Heather Krebsbach at 406-243-4719 or email marketing@umproductions.org.

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HK/jh

061813spec

Western Montana, dailies

Contact: Heather Krebsbach, marketing coordinator, UM Productions, 406-243-4719, marketing@umproductions.org.

UM NEWS



June 20, 2013

MISSOULA – Mealybugs only eat plant sap, but sap doesn't contain all the essential amino acids the insects need to survive. Luckily, the bugs have a symbiotic relationship with two species of bacteria – one living inside the other in a situation unique to known biology – to manufacture the nutrients sap doesn't provide.

The net result: The bacteria get a comfy mealybug home, and the bugs get the nutrition they need to live.

University of Montana microbiologist John McCutcheon describes such mutually beneficial relationships used to solve life's little problems as “almost hilariously complicated. But animal-bacterial relationships are extremely common in nature, and it's my goal in life to help people understand that it's normal.”

McCutcheon and his research partners recently delved deeper into the genes involved in the “tripartite nested mealybug symbiosis,” and their work was published in the June 20 issue of *Cell*, a prestigious scientific journal. The researchers discovered the already complex three-way symbiosis actually depends on genes from six different organisms – three more than the number of species that currently exist in the symbiosis.

Tremblaya princeps is the larger of the two bacteria species living within special organs inside mealybugs. *Tremblaya* houses the smaller bacterial species, *Moranella endobia*, within its cytoplasm. But what makes *Tremblaya* truly odd is the size of its genome, or genetic code. With only 120 genes, its genome is the smallest known and smaller than many scientists consider necessary for life. By comparison, common *E. coli* bacteria have about 4,200 genes and humans have about 21,000.

“We wanted to discover how this genome got so small,” McCutcheon said. “We suspected *Tremblaya*'s genome may have gotten smaller by transferring genes to the host animal, which is called horizontal transfer.”

The researchers looked for genes in the mealybug genome that resemble bacteria genes. However, after extensive analysis they only found one weak possibility for horizontal transfer from *Tremblaya*.

“Our hypothesis that *Tremblaya* was transferring genes to the host was dead wrong,” said McCutcheon. They did, however, find 22 other bacterial genes mixed in with the mealybug code – genes that seem to support activities missing in *Tremblaya*, *Moranella* and the mealybug.

How can this be?

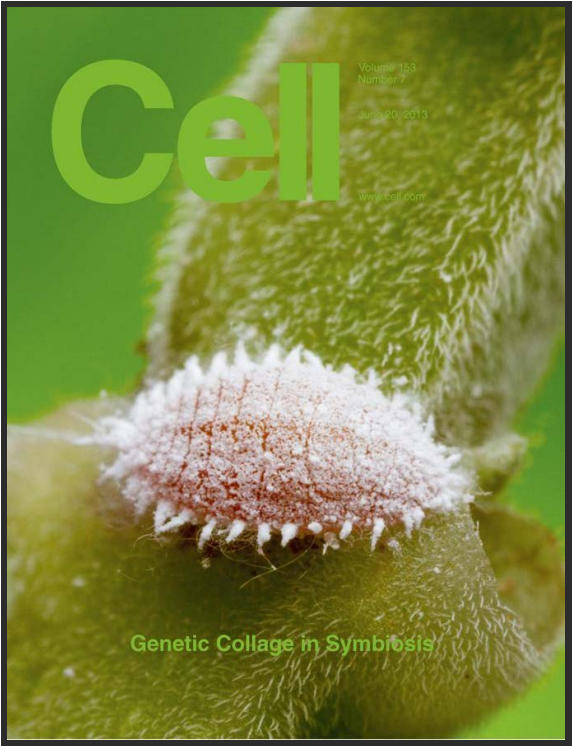
“The genes are probably from historical bacterial infections,” McCutcheon said. “These bacteria are no longer present in the mealybugs we work with, but their horizontally transferred genes are, and these genes allow the symbiosis to work.”

The research team also examined a strain of *Tremblaya* that doesn't have *Moranella* living inside it. This variety employs about 50 more genes than the one containing *Moranella*, which strongly suggests *Moranella* plays a key role in allowing the insect-dwelling *Tremblaya* to operate with such a tiny genome.

McCutcheon said *Tremblaya*, with its shrinking genome, in many ways resembles organelles called mitochondria – tiny structures found within all plant and animal cells that scientists believe started out as symbiotic bacteria in the early history of life. The mealybug/bacteria relationship he studies may illustrate one pathway bacteria take in becoming essential and highly integrated components of other cells.

“So this research really touches on some fundamental questions of the origin of life,” he said. “It's exciting to see if we can get some insight into the origin of organelles.”

McCutcheon said this study involved an international cast of 12 collaborators. Filip Husnik, the study's lead author, is a Czech doctoral student from the University of South Bohemia who worked in McCutcheon's UM lab. Other team members were from Japan, England, California, Utah and Florida.



The study was funded by a \$529,000 grant from the National Science Foundation.

“Our work illustrates how an animal's interactions with bacteria can drive hidden organismal complexity,” McCutcheon said. “A tree is more than a tree, and an animal is more than an animal. They are really mosaics of plants and animals and bacteria all working together.”

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Note to the media: The cover image of the June 2013 issue of Cell is attached.

mc

CBS

Western Montana, Dailies, Select National

062013bact

Contact: John McCutcheon, assistant professor, UM Division of Biological Sciences, 406-243-6071, john.mccutcheon@umontana.edu.

UM NEWS



June 19, 2013

MISSOULA – Peter Baker, international programs development officer at the University of Montana, will participate in the fourth annual EducationUSA Forum in Washington, D.C., June 26-28. Sponsored by the U.S. Department of State's Bureau of Educational and Cultural Affairs, the EducationUSA Forum will bring together 500 college and university recruitment and admissions professionals with almost 60 regional educational experts and advisers from around the world to discuss strategies to help international students study in the United States and for U.S. students to study abroad.

Colleges and universities, including UM, play an important role in strengthening ties between the United States and countries around the world. By welcoming international students and encouraging U.S. students to study abroad, the competitiveness of the U.S. educational system is enhanced. Not only do higher education institutions connect future global leaders with the American people, but foreign students also have a positive economic impact on the United States. As the premier study destination for international students, the education sector represents the fifth-largest U.S. services export and in 2011-12 the sector added nearly \$23 billion to the U.S. economy.

The EducationUSA Forum will offer practical information and strategies to help internationalize U.S. campuses. Workshop sessions, presented by international education experts, U.S. higher education representatives and government officials, will offer unique and valuable information on recruiting and enrolling international students.

EducationUSA is a U.S. Department of State-supported network of hundreds of advising centers around the world. Each year, EducationUSA advisers provide millions of international students with accurate, comprehensive and current information about how to apply to U.S. colleges and universities. For more information visit <https://www.educationusa.info/>.

The Bureau of Educational and Cultural Affairs promotes mutual understanding between Americans and people from around the world through a wide range of academic, cultural, private sector, professional and sports exchange programs. These international exchanges engage youth, students, educators, artists, athletes and emerging leaders from the United States and nearly 170 countries. Alumni of these exchanges comprise more than 1 million people around the world, including more than 50 Nobel Laureates and more than 350 current or former heads of state and government. For more information about these exchange programs, visit <http://exchanges.state.gov/>.

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PB/all

State

061813exch

Contact: Peter Baker, development officer, UM International Programs, peter.baker@mso.umt.edu.

UM NEWS



June 18, 2013

MISSOULA – While still reeling from the effects of the housing collapse, the global financial crisis and record low wood products markets, the outlook for Wyoming's timber industry should improve dramatically in the next year, according to University of Montana researchers.

Improved market conditions in 2012, combined with the re-opening of the Saratoga mill in southeast Wyoming, means that lumber production in the state could more than double in 2013, said Chelsea McIver, a researcher with UM's Bureau of Business and Economic Research who headed up the study.

"This would be good not only for mill owners and workers, but would have a positive impact on the logging and trucking industries as well," McIver said. "Our research indicates that approximately 14 jobs are created for every million board feet of timber delivered to Wyoming mills."

BBER researchers recently have completed the third in a series of studies on Wyoming's timber industry. Results, which span the past decade, show an industry hit hard by the Great Recession, but starting to rebound. The series of reports were developed through a cooperative effort between BBER and the USDA Forest Service, Interior West Research Station, and were co-written by McIver and Colin Sorenson, a research economist with BBER.

"The first decade of the 21st century was a real roller-coaster ride for the forest products industry across the West with record high lumber consumption leading up to 2005, followed by lows not seen since the Great Depression," Sorenson said. "In 2005, 59 timber processors were operating in Wyoming, but by 2010 this number had been cut in half, with a considerable number of businesses in the log home industry closing up shop."

In 2010, Wyoming sawmills produced 55 million board feet of lumber, compared to 168 million board feet in 2000. However, sawmills in the state used just over one-third of their production capacity in 2010, demonstrating that rebounds in wood products markets could quickly lead to significant increases in lumber production, Sorenson said.

"During the recession some mills stayed idle, waiting for the market to pick up, and others reduced their production by cutting back on the number of hours they ran each week," McIver said. "With the recent rebound in housing starts and lumber demand, at least one idle mill has reopened and others are likely hiring more workers and adding more shifts to meet increased demand."

Highlights and summary tables for this report can be found at <http://bber.umt.edu/pubs/forest/fidacs/WY2010wip.pdf>.

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CM/js

Billings media, Wyoming media

061813wood

Contact: Todd Morgan, director, Forest Industry Research Program, UM Bureau of Business and Economic Research, 406-243-5113, todd.morgan@business.umt.edu; Chelsea McIver, research assistant, Forest Industry Research Program, UM Bureau of Business and Economic Research, 406-243-5113, chelsea.mciver@business.umt.edu.

UM NEWS



June 18, 2013

MISSOULA – Missoula College University of Montana will host a one-day workshop on Thursday, June 20, where Career and Technical Education teachers from local high schools and the college will meet with business and industry representatives to discuss targeted programs of study.

The workshop will be held from 8 a.m. to 4 p.m., Thursday, June 20, in Health and Business Building Room 01 at Missoula College, located at 909 South Ave. West. Lunch is provided. Debbie Mills, director of National Career Pathways Network, will facilitate the workshop.

There is no cost to attend, but participants must register by calling Donna Bakke of Missoula College at 406-243-7802 or by emailing donna.bakke@mso.umt.edu.

During the event, faculty from secondary and post-secondary schools and business representatives will become familiar with career clusters and how Career Pathways can help students become successful.

Career Pathways is a workforce development strategy used in the U.S. to transition workers from education into the workforce. The Career Pathways initiative is a partnership among colleges, primary and secondary schools, workforce and economic development agencies, employers, labor groups and social service providers.

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JS

Local

061813care

Contact: Donna Bakke, program manager, Missoula College UM Career Pathways, 406-243-7802, donna.bakke@mso.umt.edu.

UM NEWS



June 18, 2013

POLSON – The faculty and staff at the University of Montana’s Flathead Lake Biological Station will celebrate the renovation and rededication of the site’s Elrod Building from 4 to 6 p.m. Friday, June 21. The event is free and open to the public.

The renovation of the building, named after FLBS founder Morton J. Elrod, addressed safety and access code deficiencies, as well as energy efficiency. Although its footprint did not change, many exterior and interior improvements were made and the original building’s cornerstone was relocated.

During the renovation – made possible by a gift from the Walton Family Foundation – a time capsule from 1967 was discovered behind the cornerstone.

Richard Solberg, the FLBS director in 1967, and his staff compiled interesting documents and memorabilia to represent their era and placed them in the time capsule. Current FLBS personnel inspired by this discovery are replacing the time capsule and its original contents and adding items from the present and recent past. Solberg will be in attendance at Friday’s event.

Displays about the time capsule, new items to be included and the station’s current research can be viewed during the event. The rededication will take place at 5 p.m. and a guided tour of the station will be offered at 5:30 p.m.

Ice cream, cookies and lemonade will be provided, and FLBS faculty and staff will be available to discuss the station’s history, mission and research.

For more information call Tom Bansak, FLBS research scientist/development coordinator, at 406-982-3301 ext. 229 or email tom.bansak@umontana.edu.

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TB/jh

Western Montana

061813flbs

Contact: Tom Bansak, research scientist/development coordinator, UM Flathead Lake Biological Station, 406-982-3301 ext. 229, tom.bansak@umontana.edu.

UM NEWS



June 14, 2013

MISSOULA – Fifteen Montana University System undergraduates have received summer internships to research climate science-related projects at sites throughout Montana.

The Institute on Ecosystems students will work with faculty at the University of Montana and Montana State University on a variety of projects, studying everything from elk, marmots and snowshoe hares to Ponderosa pines and microscopic cyanobacteria.

The Institute on Ecosystems is a multi-institutional community dedicated to understanding complex ecosystems and the interconnectedness of people and nature. Its internship program supports students who explore the effects of climate change in sustaining healthy ecosystems and economic growth.

The students' research findings will be presented at the Institute on Ecosystems annual summit in Helena on Aug. 21-23.

"We are excited to fund these students and look forward to their findings," said Ric Hauer, Institute on Ecosystems director at UM. "One of our institute's primary goals is to support the next generation of ecosystem scientists. These students are our future."

"Climate impacts nearly every sector of our economy – from agriculture to tourism," said Cathy Whitlock, MSU's IoE director. "These students are researching important questions that will give us valuable information about Montana's vulnerability to climate change."

Montana interns, along with their hometowns, research topic and project location are:

- Kayli Anderson, Billings: Temperature dependence of hydrogen metabolism in the nitrogen-fixing cyanobacterium *Mastigocladus laminosus*, Yellowstone National Park.
- Dominique David, Bozeman: Snowshoe hare behavioral response to a potential predator, Northern Rockies, Wilderness Society.
- Katie Noland, Great Falls: Soils and their relationship to ecosystem health in the context of the Northern Great Plains, Judith River Watershed, American Prairie Reserve.
- Kimberly Ledger, Missoula: Biogeographical investigation of exotic invasion, UM campus.
- Gilia Patterson, Missoula: Resin duct density and growth in Ponderosa pines, Lubrecht Experimental Forest.
- Matthew Weingart, Pablo: Reconstructing the late-glacial and Holocene vegetation, fire and climate history of Swan Lake through analysis of lake sediment cores, Swan Lake, Yellowstone National Park.
- Hannah Funke, Polson: Relationship between *Pinus contorta* recruitment in meadows and fire, Greater Yellowstone Ecosystem.

Students from Alaska, Idaho, Michigan, Minnesota, North Carolina, Utah, Vermont and Washington also were selected as Institute on Ecosystems interns.

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GA/js

Statewide

061413ecos

Contact: Gay Allison, Montana Institute on Ecosystems, 406-243-2617, gay.allison@umontana.edu.



UM NEWS

June 13, 2013

MISSOULA – Thirty high school juniors and seniors from across Montana will be attending MedStart: An Exploration of Health Care Careers, June 23-28. The weeklong program, held on the University of Montana campus and hosted by the Western Montana Area Health Education Center, is designed to expose students to a variety of health science fields and health care career opportunities.

More than 175 applicants from across the state vied for 90 available student placements in the 2013 MedStart program. Rural, first-generation college students were given priority, and student essays, transcripts and recommendations weighed heavily in the selection process.

During the camp, MedStart students will tour Marcus Daly Memorial Hospital and Rocky Mountain Laboratories in Hamilton; job shadow at ten local health care facilities; and attend presentations on environmental health science, forensic anthropology, psychology, dentistry, nutrition/herbal medicine, pharmacy, career assessment and college financial aid.

Participants also will have the opportunity to experience unique Missoula activities such as hiking the M, taking a group bike ride to Hoagieville for cheese fries and attending the Missoula Osprey baseball game on June 24. The week will culminate with a celebratory luncheon attended by students, parents and the administration of UM's College of Health Professions and Biomedical Sciences.

Montana, and the nation as a whole, is facing a health care workforce shortage. To develop the next generation of health care providers, the Montana AHEC system has organized the MedStart Summer Camp as one way to spark student interest in pursuing careers in the health care field. June MedStart camps also will be hosted in Great Falls and Bozeman.

Western Montana AHEC MedStart is made possible through Montana State University's GEAR UP (*Gaining Early Awareness & Readiness for Undergraduate Programs*) support and generous donations from Providence St. Patrick/St. Joseph Foundations, Kalispell Regional Healthcare Foundation, Community Medical Center Foundation, Clark Fork Valley Hospital Foundation and Mineral County Community Foundation.

For more information call Western Montana AHEC K-12 Program Coordinator Martha Robertson at 406-243-4746 or email martha.robertson@mso.umt.edu.

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MR/all

Western

061313meds

Contact: Martha Robertson, K-12 program coordinator, Western Montana Area Health Education Center at UM, 406-243-4746, martha.robertson@mso.umt.edu.

UM NEWS



June 13, 2013

MISSOULA – An analysis recently completed by the Institute for Tourism and Recreation Research at the University of Montana highlights the economic contribution of nonresident travel spending to each of the six travel regions in Montana, as well as 15 of the state's 56 counties.

Previous estimates of the economic contribution of traveler spending at the statewide level showed that 10.8 million visitors spent approximately \$3.27 billion in 2012, which directly supported \$2.6 billion of economic activity and nearly 30,000 Montana jobs.

Nonresident travelers indirectly support an additional \$1.6 billion of economic activity and 13,000 jobs. Associated with those travel-related jobs is \$805 million in labor income directly attributable to nonresident travel and another \$448 million indirectly attributable to nonresident spending.

Focusing on the \$714.4 million spent by nonresident travelers in the northwestern part of the state, \$471.9 million of economic activity and nearly 6,600 jobs are directly supported in Glacier Country. An additional \$304.8 million of economic activity and more than 2,900 jobs are indirectly supported. Directly attributed to nonresident spending is \$167.7 million in labor income, supplemented by an additional \$92.8 million indirectly supported by traveler spending.

Flathead, Glacier and Missoula Counties, each located within Glacier Country, also were each included in the analysis. \$195.1 million of economic activity in Flathead County was directly supported by the \$290.4 million spent in the county, with an additional \$123.2 million supported indirectly. Nearly 2,800 jobs and more than \$72.2 million in labor income was directly supported by the spending in the county, with an additional 1,200 jobs and \$38.1 million in labor income being indirectly supported.

Nonresidents spent \$75.5 million in Glacier County, thereby directly supporting more than \$52.1 million of economic activity, 770 jobs and more than \$19.4 million in labor income. Indirectly supported was an additional \$12.9 million of economic activity, 130 jobs and \$3.3 million in labor income.

In Missoula County, \$166.7 million of economic activity was directly supported by \$258.8 million of nonresident traveler spending. This spending contributed to nearly 2,200 jobs and the associated \$59.2 million in labor income in the county. Indirectly supported in Missoula County was an additional \$113.1 million of economic activity, 1,080 jobs and \$37.1 million in labor income.

The full report, including estimates of the economic contribution of nonresident traveler spending in the other five Montana travel regions, as well as additional county-level estimates is online at <http://www.itrr.umt.edu/>.

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Western

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Contact: Norma Nickerson, director, UM Institute for Tourism and Recreation Research, 406-243-2328, norma.nickerson@umontana.edu.

UM NEWS



June 13, 2013

MISSOULA – Harriet and Ozzie, an adult pair of ospreys nesting high in their perch above the Dunrovin Guest Ranch in Lolo, have been Internet sensations for more than two years. Thanks to a high-resolution webcam placed at the nest by University of Montana researchers, the entire world is able to watch the birds return to the nest each spring and follow their saga as they raise their young.

Now, these reality stars will have an opportunity to raise money to support UM's Wildlife Biology Program – a nod to the researchers who have been instrumental in bringing the birds to the world.

Friends of Dunrovin, a charitable nonprofit organization that supports nature- and animal-based experiential learning programs, will launch a contest June 13 that challenges entrants to guess the date and time of the chick's first flight from the nest.

Participants can enter their guess online at <http://ospreycontests.org>. Each entry costs \$5, and the person who comes closest to picking the correct date and time of the first flight will split the pot 50-50. Thirty percent of entry fees will benefit UM's Wildlife Biology Program and 20 percent will go to Friends of Dunrovin for their support of small educational grants.

"This is our first effort to raise funds for charitable nature and animal-based experiential learning programs in Montana," said SuzAnne Miller, owner of Dunrovin Ranch. "Whether you're interested in nature, educational programs, supporting Montana nonprofits, or are just in it for the chance to win some cash, the money will be well-spent."

Retired Yellowstone ornithologist Terry McEneaney will serve as the contest's official judge, using his 34 years of observing osprey and the webcam to announce the official date and time of the first flight.

"Aside from the research opportunities the cameras afford, they offer an incredible opportunity for the world to gain an intimate perspective on an iconic Montana bird," said Dan Pletscher, director of UM's Wildlife Biology Program. "We are happy to partner with Dunrovin Ranch on our webcam research project, and we are thrilled to be the beneficiaries of this contest."

Osprey mate after a courtship ritual that includes sky-dancing above the nest by the male. Clutches usually number from two to four eggs. Incubation takes between 34 and 40 days. This year, Harriet and Ozzie's eggs hatched on May 28, May 30 and June 1. At seven to eight weeks of age, the young will take their first flight. The contest will run from June 13 to July 2. The osprey can be viewed online at <http://daysatdunrovin.com/Home>.

For more information about the contest , visit <http://ospreycontests.org> or call Miller at 406-273-7745.

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Contact: SuzAnne Miller, owner, Dunrovin Ranch, 406-273-7745, dunrovin@bigsky.ne; Emma Bentley, development officer, UM Wildlife Biology Program, 406-243-5208, emma.bentley@mso.umt.edu; After June 17 contact: Dan Pletscher, director, UM Wildlife Biology Program, 406-243-6364, dan.pletscher@umontana.edu.

UM NEWS



June 12, 2013



Anna Bergstrom

MISSOULA – Incoming University of Montana forestry graduate student Anna Bergstrom recently was awarded a National Science Foundation Graduate Research Fellowship. The Fellowship provides three years of tuition, a stipend and travel to two conferences.

Bergstrom, originally from Rockford, Ill., earned a bachelor's in land resources analysis and management from Montana State University in 2011. As an undergraduate student, she worked with MSU Associate Professor Brian McGlynn, who later hired her to finish and publish her research after graduation.

She also worked as a research associate for McGlynn in his new position at Duke University before returning to Montana to get her doctorate degree with UM College of Forestry and Conservation Professor Kelsey Jencso.

Bergstrom will work with Jencso to research water runoff in the Little Belt Mountains. She'll identify factors that influence stream flow, such as geology and vegetation, from peak discharge to low summer base flow. Her study areas will include small headwater basins and larger systems such as the Smith River, which is dependent on headwater basin stream flow for

agricultural use.

Returning to Montana will allow Bergstrom to continue her research in the Tenderfoot Experimental Forest, where she previously worked with both Jencso and McGlynn. She also is excited to be back in the state.

"I love the landscape, the people and the smaller, yet supportive, style of the universities here," Bergstrom said.

The National Science Foundation Graduate Research Fellowship recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering and mathematics disciplines who are pursuing research-based master's and doctoral degrees at accredited U.S. institutions.

For more information call Leana Schelvan, director of communications for UM's College of Forestry and Conservation, at 406-243-6693 or email leana.schelvan@umontana.edu.

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Photo Cutline: Anna Bergstrom (Courtesy photo)

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State, Hometown

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Contact: Leana Schelvan, director of communications, UM College of Forestry and Conservation, 406-243-6693, leana.schelvan@umontana.edu.

UM NEWS



June 10, 2013

MISSOULA – The Montana Museum of Art & Culture at the University of Montana will host a lecture and book signing by Dr. Richard Buswell at 7 p.m. Thursday, June 13, in the Masquer Theatre of the Performing Arts and Radio/Television Center.

Buswell's photography is featured in the current MMAC exhibit "Richard Buswell: Close to Home." The show is on display in the Paxson Gallery in the PAR/TV Center through Aug. 3.

Buswell has photographed Western settlement sites, ghost towns and frontier homesteads for more than 41 years. He has exhibited internationally and is included in the major American collections of the Smithsonian American Art Museum, Museum of Fine Arts in Boston, Corcoran Gallery of Art, the George Eastman House International Museum of Photography and Film, Baltimore Museum of Art, Brooklyn Museum of Art, MMAC and more.

Throughout his career, Buswell increasingly has moved closer to his subject matter, emphasizing corroded artifacts and decayed bones to reveal the ravages of time. Ironically, Buswell's photographs are not about loss, but about preservation. Buswell documents the effects of extraction and industry, while also portraying the renewal of the land.

"Close to Home" features photographs from Buswell's book of the same name. The book, published by the University of New Mexico Press, includes a foreword by George Miles, curator of the Western Americana Collection at Yale University Beinecke Rare Book and Manuscript Library and an introduction by Julian Cox, founding curator of photography and chief curator at the Fine Arts Museums of San Francisco's de Young Museum.

"MMAC has enjoyed a rewarding and nearly 20-year relationship with the nationally regarded Dr. Richard Buswell and we proudly present his most recent works," said Barbara Koostra, director of the museum. "His record of Montana history plays with our sense of what we are seeing, surprising us with the effects of time on place."

MMAC and the University of Montana Press have published three of Buswell's books: "*Echoes: A Visual Reflection*," "*Silent Frontier: Icons of Montana's Frontier*" and "*Traces: Montana's Frontier Re-visited*."

The MMAC's summer hours are Wednesday, Thursday and Saturday from noon to 3 p.m. and Friday from noon to 6 p.m. For more information call 406-243-2019 or go online to <http://www.umt.edu/montanamuseum>.

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NOTE TO MEDIA: Digital images of select items included in the exhibition are available upon request by calling 406-243-2019.

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Western Montana

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Contact: Brandon Reintjes, curator of art, Montana Museum of Art & Culture at UM, 406-243-2019, brandon.reintjes@mso.umt.edu.

UM NEWS



June 07, 2013



HearstFinalists.jpg

MISSOULA – Recent University of Montana journalism graduates Sam Wilson and Jessica Murri won first- and second-place honors, respectively, in the Hearst Journalism Awards finals on June 6 in San Francisco.

Wilson, of Brush Prairie, Wash., won the top prize in the multimedia competition, and Murri, of Boise, Idaho, took second place in the radio category with a special honor for her work. Both students graduated with bachelor's degrees from the School of Journalism in May.

As part of the Hearst Journalism Awards, students from accredited journalism programs compete in a series of contests over the course of the academic year. The top five finishers in each category compete in an all-expenses-paid live competition each June in San Francisco. Competitors are assigned a theme and must report their story in one day, then write and edit it the next day.

Wilson's assignment was to find the "real" San Francisco. He profiled the San Francisco presented to tourists by a tour guide, then showed the reality of that tour guide's life eking out a living in one of the most expensive cities in the world. He used video and audio to tell the story.

"I was incredibly honored to be able to go to San Francisco to compete," Wilson said. "It was an excellent test of everything I've learned in four years at the School of Journalism."

In the radio competition, Murri was asked to produce a two-minute story on the challenges of on-air predictions. She interviewed kite boarders who told harrowing stories about weather predictions gone wrong and how those predictions put them in life-threatening danger. She also spoke with a weather forecaster about the pressures of accuracy, knowing lives depend on your work.

"It was great to experience San Francisco as a journalist and not just a tourist," Murri said. "It was incredible to be able to share this experience with so many talented students from across the United States. It was definitely a once-in-a-lifetime opportunity."

Wilson won \$5,000 for his first-place award, and Murri won \$4,000 with an additional \$1,000 prize for best radio news reporting.

The Hearst Journalism Awards Program was founded in 1960 to provide support, encouragement and assistance to journalism education at the university level. The competition is known as the Pulitzer Prize of college journalism.

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Photo caption: Hearst Journalism Awards winners Sam Wilson, left, and Jessica Murri, right. (Courtesy Photo)

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State, Hometowns

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Contact: Denise Dowling, interim dean, UM School of Journalism, 406-243-4143, denise.dowling@umontana.edu.

UM NEWS



June 07, 2013

MISSOULA – The University of Montana has hired Eric Gutierrez as its new director of equal opportunity and affirmative action after an extensive nationwide search. He will begin his duties July 1.

The director of the Office of Equal Opportunity and Affirmative Action serves as the University's senior EO/AA and discrimination grievance officer. The position oversees UM's EO/AA policies, practices, publications and programs, as well as advising and training for faculty, staff and students in all aspects of harassment and discrimination awareness, education and prevention. The director also serves as a member of the President's Cabinet.

Gutierrez has a long commitment to public interest law, particularly in the areas of immigrants' rights, employment discrimination, education, voting, housing, health care, financial literacy, LGBT and women's issues, poverty and access to benefits.

"I am greatly honored and excited to serve the University of Montana community as it strives to enhance equal opportunity and implement affirmative action principles for students, faculty and staff," Gutierrez said. "As a civil rights advocate, I was drawn to Missoula's growing diversity and the chance to be a part of the University's historic response to addressing discrimination issues campuswide."

He has served as the legislative and public policy director for the National Employment Lawyers Association in Washington, D.C. since 2011. He previously served as an attorney with Columbia Legal Services in Moses Lake, Wash., immigrant policy program director with Appleseed and as a legislative staff attorney with the Mexican American Legal Defense and Educational Fund, also in Washington, D.C.

He earned his law degree from the Seattle University School of Law in 2005. He also holds a master's in theology from the Catholic University of America and a bachelor's in creative writing from Pepperdine University.

"Eric brings great depth of experience both as a director, trainer and practicing attorney in the areas of equal opportunity and affirmative action," said UM President Royce Engstrom. "His fresh perspective and insight into policy reform at the national level will enrich UM's already strong commitment to discrimination prevention and the promotion of equal opportunity."

For more information call the UM Office of the President at 406-243-2311 or email prestalk@umontana.edu.

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Contact: UM Office of the President, 406-243-2311, prestalk@umontana.edu.



UM NEWS



June 06, 2013

MISSOULA – Members of the Bitterroot Valley community are invited to a new name- and logo-unveiling event for Bitterroot College University of Montana at 4 p.m. Tuesday, June 18, at 274 Old Corvallis Road in Hamilton.

The unveiling will kick off with remarks from Montana Deputy Commissioner of Two-Year Education John Cech. UM President Royce Engstrom, BC Advisory Council Chair Lynn Stocking and BC Advisory Council Vice Chair Dixie Stark also will deliver a few words before the unveiling.

BC donors also will be recognized at the event with an unveiling of a "First Fifty" plaque, which honors the first 50 individuals and organizations who contributed gifts of \$1,000 or more. Aside from scholarships, the donations have purchased classroom furniture and equipment, lab supplies and tools, as well as pay for instruction and curriculum development and also fund marketing initiatives.

"Due to incredible generosity from members of our community, we are able to provide our students with a first-class experience as they pursue higher education," said Victoria Clark, BC director. "In addition to funding classroom and laboratory infrastructure, donations enabled us to establish this institution within the community by creating our own unique logo and producing a new sign for the building."

Following the formal program, the public is invited to attend a "Meet Your College" open house, which includes tours of the facility and the opportunity to meet and ask questions of staff, students and faculty. The open house runs until 6 p.m.

Refreshments will be served, and participants can purchase BC logo merchandise.

As part of the College!NOW initiative, the Montana University System redefined the roles of two-year colleges in Montana. The Board of Regents identified five essential attributes to be provided at each two-year college, including:

- Transfer education through the associate degree.
- Workforce development, including certificates and associate of applied science degrees.
- Developmental and basic adult education.
- Lifelong learning.
- Community development.

The attributes of the comprehensive two-year mission include:

- Open-access admissions.
- Affordability.
- Student centeredness.
- Adult-focused and accessible learning.
- Responsiveness to local needs.
- Cultivation of partnerships.

To make two-year education better understood and better used by all Montanans, the Board of Regents voted in spring 2012 to rename the two-year programs in Bozeman and Hamilton and the colleges of technology within the MUS: Bitterroot College University of Montana; Helena College University of Montana; Highlands College of Montana Tech, located in Butte; Missoula College University of Montana; City College at Montana State University-Billings, located in Billings; Great Falls College Montana State University; and Gallatin College Montana State University, located in Bozeman.

Currently BC students can pursue an Associate of Arts degree, also known as a two-year transfer degree. The college also offers all of the prerequisite courses required for admissions into Missoula College's Health Profession degree programs.

Beginning in the fall, BC will offer three new Certificate of Applied Science Degree programs: Building Maintenance Engineering, Computer Support Specialist and Customer Relations.

Applications for these programs now are being accepted. Admissions representatives will be available at the name and logo unveiling event to answer questions and provide more information. Those unable to attend the event can call 406-375-0100 to learn more.

For more information about the event call Clark at 406-375-0100 or email victoria.clark@umontana.edu.

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Contact: Victoria Clark, director, Bitterroot College, 406-375-0100, victoria.clark@umontana.edu.



UM NEWS

June 06, 2013

MISSOULA – At the University of Montana, 2,990 students made the spring semester 2013 Dean's List. To qualify for the Dean's List, students must be undergraduates, earn a semester grade-point average of 3.5 or higher and receive grades of A or B in at least nine credits. No grades of C+, C, C-, D+, D, D-, F, NC or NCR are allowed.

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NOTE TO MEDIA: The UM students listed below made the spring semester 2013 Dean's List. A “***” in the “Honors” column indicates a grade-point average of 4.0. An “**” indicates that a GPA of greater than 3.5 but less than 4.0 was earned.

The complete list is available online at: <http://www.umt.edu/urelations/info/DeansListSpring2013.pdf>

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Contact: UM Registrar’s Office, 406-243-2995, .

UM NEWS



June 04, 2013

MISSOULA – Ruesha Hendricks, a senior premedical student at the University of Montana, recently was awarded the U.S. Department of State Benjamin A. Gilman International Scholarship sponsored by the Institute of International Education.

During the 2013-14 academic year application cycle, the Gilman Scholarship Program reviewed nearly 2,800 applications for more than 800 awards. Hendricks is the only award recipient from Montana.

On May 28, Hendricks learned that she will receive a \$5,000 award to intern in India with the Center of Social Medicine. Her internship was set up through UM's IE3 Global Internship program, which provides opportunities for students to grow personally, professionally and cross-culturally.

When asked her reaction to receiving the news, she said, "I didn't really have time to digest it in the moment, but later I called my mom and we cried happy tears together.

"I had already sold my car to help pay for the trip and anticipated having to live in a box or couch surf when I returned, but those were sacrifices I was willing to make for the experience," she said. "The Gilman Scholarship Program is taking a huge amount of stress off my shoulders, ensuring I will be able to eat when I return for my last semester at UM."

Hendricks will depart for India in the fall. The Center for Social Medicine is based in a university adjacent to a hospital that provides innovative rural health services to a wide range of beneficiaries.

She will study the challenges faced in rural India from a systemic and clinical view and is invited to tailor the internship to meet her area of study and interest. Hendricks will have the opportunity to shadow doctors or nurses in the hospital, tour mobile and e-clinics, engage in trainings for women's empowerment initiatives, HIV/AIDS prevention programs and study health in tribal communities.

"I'm excited for this opportunity, because it encompasses a greater variety of experiences than many internships of its kind," Hendricks said.

This summer she is interning at the University of Idaho in an evolutionary psychology virtual reality research lab – just one of many diverse extracurricular activities she has pursued in preparation for a career as a physician in rural and global health.

"During each experience I learned a new set of technical skills and expanded upon other skills, such as patience and communication," she said.

The Gilman Scholarship Program offers awards for undergraduate study abroad and was established by the International Academic Opportunity Act of 2000. This scholarship provides awards for U.S. undergraduate students who are receiving Federal Pell Grant funding at a two-year or four-year college or university to participate in study abroad programs worldwide.

Hendricks grew up in Missoula. For more information about IE3 Global Internship program call Kevin Hood, program coordinator for UM's Internship Services Administration, at 406-243-4613 or email kevin.hood@umontana.edu.

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Contact: Kevin Hood, program coordinator, UM Internship Services Administration, 406-243-4613, kevin.hood@umontana.edu; Ruesha Hendricks, UM student, 406-546-8602, ruesha.hendricks@umconnect.umt.edu.

UM NEWS



June 03, 2013



Anne E. Greene in Botswana's Okavango Delta

MISSOULA – Anne E. Greene, adjunct faculty member for the University of Montana's Wildlife Biology Program, recently published "Writing Science in Plain English."

"This short, inexpensive guide shows scientific writers at all levels how to transform abstract, wordy writing to clear, concise prose," Greene said.

Her book illustrates a dozen principles that help scientists deliver complex information clearly to their readers, including using concrete subjects, strong verbs, active voice and consistent terms. She drives home her points with real-life examples of both good and bad writing and also shows how to revise bad writing to make it clearer and more concise. Each chapter includes practice exercises so that readers can come away with new writing skills.

Greene is a trained marine biologist and has taught undergraduate- and graduate-level scientific writing at UM for 10 years. She also has written for several natural history museums, newspapers and periodicals, focusing on subjects related to biology.

University of Chicago Press published "Writing Science in Plain English," which costs \$13 and can be found online at <http://press.uchicago.edu/ucp/books/book/chicago/W/bo15288825.html>.

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Photo caption: Anne E. Greene in Botswana's Okavango Delta

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Contact: Anne E. Greene, adjunct faculty member, Wildlife Biology Program, UM College of Forestry and Conservation, 406-243-2179, anne.greene@mso.umt.edu.

UM NEWS



June 03, 2013

MISSOULA – Registration is open for the first-ever UM Campus Recreation summer Youth Camps. The camps are open to children entering kindergarten through fifth grade.

Each week of camp, participants have the opportunity to take part in all areas of recreation, with swimming lessons, fitness activities, outdoor adventures and a weekly sports theme such as football, soccer, golf, baseball, softball, tee ball, floor hockey, basketball, playground games and volleyball.

Camps run June 10 through Aug. 9, with the option of participating in one to eight weeks of camp. They will be held on the main campus and run weekdays from 9 a.m. to 3 p.m., with an option of late pick-up at 5 p.m. Sessions cost between \$115 and \$130 per week.

Campus Recreation's Youth Camps Director Natalie Hiller-Claridge developed this new type of camp to get youth excited about recreation and the UM campus.

For more information or to register, visit <http://www.umt.edu/youthcamps> or call 406-243-5295.

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Contact: Devan Annan, youth camps lead counselor, UM Campus Recreation, 208-309-0949, devan.annan@mso.umt.edu.